

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) Crinkling device for a wrapping machine, designed to adjust the width of a foil web $[(1)]$ to be wrapped around an object between a full first web width (W_1) and a substantially narrow reduced second web width (W_2), said crinkling device comprising

- a frame $[(2)]$ connected to a foil dispenser comprised in the wrapping machine, said foil dispenser carrying a foil web roll of foil web $[(1)]$ having a longitudinal upper edge $[(3)]$ and a longitudinal lower edge $[(4)]$,

- a first wheel $[(5)]$ rotatably mounted on the frame $[(2)]$,

- a second wheel rotatably mounted on the frame $[(2)]$ at a distance from the first wheel $[(5)]$,

- an endless drive element $[(7)]$, which is passed over the first wheel $[(5)]$ and the second wheel $[(6)]$, forming a first drive element portion $[(8)]$ and a second drive element portion $[(9)]$, said portions extending adjacently and parallel to each other between the wheels in the widthwise direction of the foil web,

- a power means $[(10)]$ for moving the drive element $[(7)]$ optionally in a first running direction $[(11)]$ with the first drive element portion $[(8)]$ moving upwards and the second drive element portion $[(9)]$ moving downwards, and in an opposite second running direction $[(12)]$ with the first drive element portion $[(8)]$ moving downwards and the second drive element portion $[(9)]$ moving upwards.

- a first carriage $[(13)]$, which is fastened to the first drive element portion $[(9)]$ and guided in the frame $[(2)]$ so as to be movable in the widthwise direction of the foil web,

- a first crinkling element $[(14)]$, which is mounted on the first carriage $[(13)]$ for crinkling the upper edge $[(3)]$ of the foil web,

- a second crinkling element [(15)], which is movable by the action of the drive element [(7)] in the widthwise direction of the foil web [(1)] for crinkling the lower edge [(4)] of the foil web, c h a r a c t e r i z e d in that the crinkling device comprises

- a slide rod [(16)], to which the second crinkling element [(15)] is fastened and which is guided in the frame [(2)] so as to be movable in a substantially vertical direction between a lower position [(L)], in which the second crinkling element [(15)] is out of contact with the lower edge [(4)] of the foil web [(1)], and an upper position [(U)], in which the second crinkling element [(15)] deflects the lower edge [(4)] of the foil web [(1)] upwards so as to crinkle it, said slide rod being arranged to return towards the lower position [(L)] when not exposed to a force acting in the upward direction;

- first coupling means [(17¹, 18¹)] for forming a releasable coupling between the slide rod [(16)] and the first drive element portion [(8)] when the drive element [(7)] is running in the first direction [(11)] to move the second crinkling element [(15)] to the upper position [(U)]; and

- second coupling means [(17², 18²)] for forming a releasable coupling between the slide rod [(16)] and the second drive element portion [(9)] when the drive element [(7)] is running in the second direction [(12)] to move the second crinkling element [(15)] to the upper position [(U)];

so that, by driving the drive element [(7)] in the first running direction [(11)], the foil web [(1)] can only be crinkled from its lower edge [(4)], and

by driving the drive element [(7)] in the second running direction [(12)], the foil web [(1)] can be crinkled optionally either from the upper edge [(3)] without crinkling the lower edge [(4)] or from the upper edge [(3)] and the lower edge [(4)] simultaneously.

2. (Currently Amended) Crinkling device according to claim 1, c h a r a c t e r i z e d in that the first coupling means [(17¹, 18¹)] comprise

- a first dog [(17¹)] connected to the slide rod [(15)] near the upper end, and
- a second dog [(18¹)], which is connected to the first carriage [(13)] and fitted to come into contact with the first dog [(17)] when the drive element [(7)] is running in the first direction [(11)].

3. (Currently Amended) Crinkling device according to claim 1 [[or 2]], c h a r a c t e r i z e d in that the crinkling device comprises a second carriage [[21]], which is fastened to the second drive element portion [[9]] and guided in the frame [[2]] so as to be movable in the widthwise direction of the foil web [[1]].

4. (Currently Amended) Crinkling device according to claim 3, c h a r a c t e r i z e d in that the second coupling means [[17², 18²]] comprise

- a third dog [[17²]], which is connected to the slide rod [[16]] near the upper end, and
- a fourth dog [[18²]], which is connected to the second carriage [[21]] and fitted to come into contact with the third dog [[17²]] when the drive element [[7]] is running in the second direction [[12]].

5. (Currently Amended) Crinkling device according to claim 1 [[or 2]], c h a r a c t e r i z e d in that the slide rod [[16]] comprises a straight rod part [[19]] mounted in the frame [[2]] by means of guide elements [[20]] placed between the first drive element portion [[8]] and the second drive element portion [[9]].

6. (Currently Amended) Crinkling device according to claim 5, c h a r a c t e r i z e d in that the slide rod [[16]] is so mounted in the frame [[2]] that the slide rod will be returned to the lower position]](L)] by the action of gravitation.

7. (Currently Amended) Crinkling device according to ~~any one of claims 1—6~~ claim 1, c h a r a c t e r i z e d in that a return spring [[25]] is provided between the slide rod [[16]] and the frame [[2]] for returning the slide rod to the lower position [[L)].

8. (Currently Amended) Crinkling device according to ~~any one of claims 1—6~~ claim 1, c h a r a c t e r i z e d in that the power means [[10]] is a motor arranged to drive the first wheel [[5]] or the second wheel [[6]].

9. (Currently Amended) Crinkling device according to ~~any one of claims 1—8~~ claim 1, c h a r a c t e r i z e d in that the crinkling device comprises detectors $[(22, 23, 24)]$ for detecting the position of the carriages $[(13, 21)]$ and controlling the power means $[(10)]$ on that basis to stop the motion of the drive element $[(7)]$ and to change its running direction.

10. (Currently Amended) Crinkling device according to claim 9 $[[\text{or } 10]]$, c h a r a c t e r i z e d in that the detectors $[(22, 23, 24)]$ are proximity sensors having a first state $[(0)]$ and a second state $[(1)]$; and that the detectors $[(22, 23, 24)]$ have been fitted to change their state between the first and second states when the first carriage $[(13)]$ and/or the second carriage $[(21)]$ is within the detection distance of the detector.